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Fig. 1A
18L

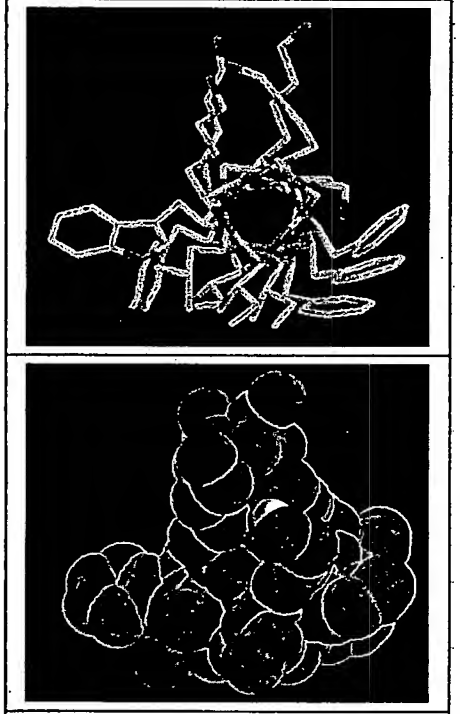


Fig. 1D

Fig. 1B
R18L

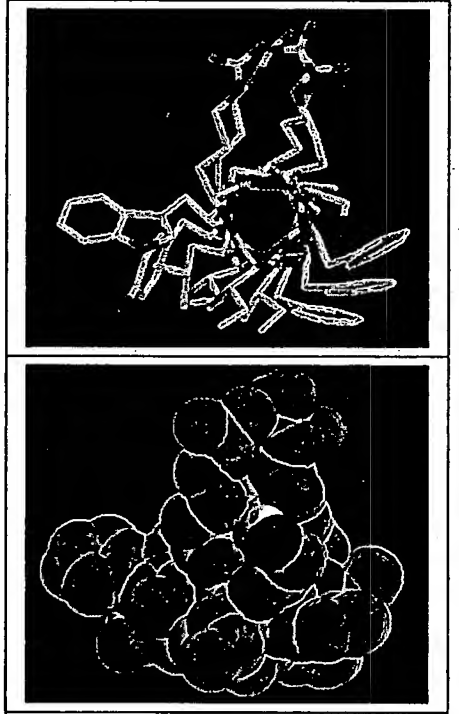


Fig. 1E

Fig. 1C
18A

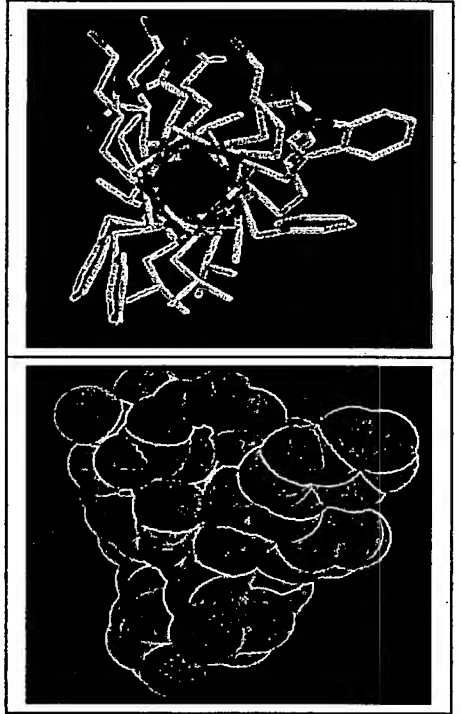


Fig. 1F

Figs. 1A-1F

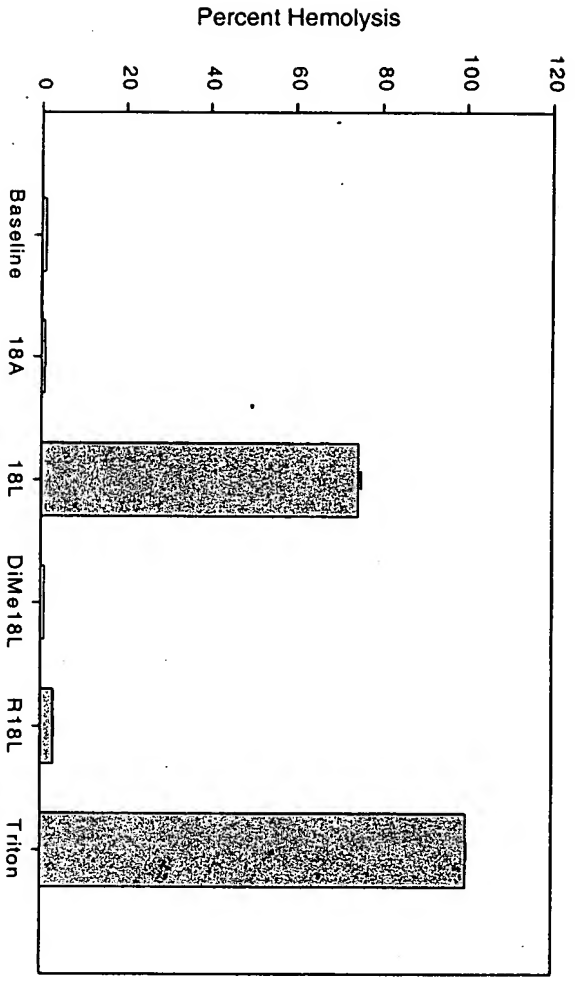
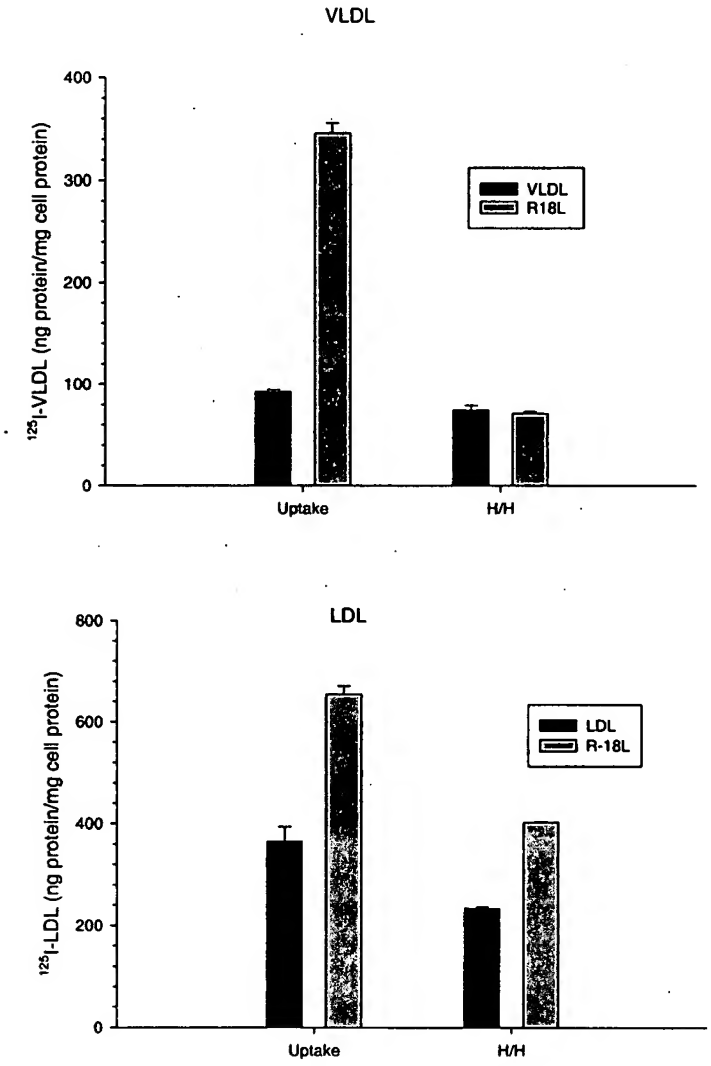

Percent Hemolysis
0
20
40
60
80
100
120
Baseline
18A
18L
DiMe18L
R18L
Triton

Fig. 2


VLDL
400
300
200
100
0
^{125}I-VLDL (ng protein/mg cell protein)
VLDL
R18L
Uptake
H/H
LDL
800
600
400
200
0
^{125}I-LDL (ng protein/mg cell protein)
LDL
R-18L
Uptake
H/H

Figs. 3A - 3B

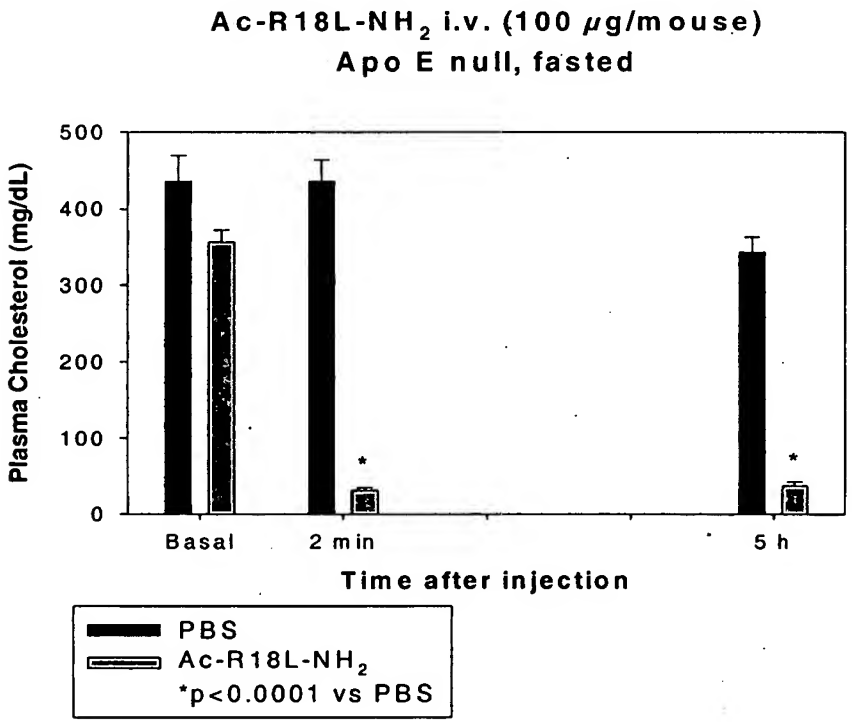

Ac-R18L-NH2 i.v. (100 μg/mouse)
Apo E null, fasted
Plasma Cholesterol (mg/dL)
500
400
300
200
100
0
Basal
2 min
5 h
Time after injection
PBS
Ac-R18L-NH2
*p<0.0001 vs PBS

Fig. 4

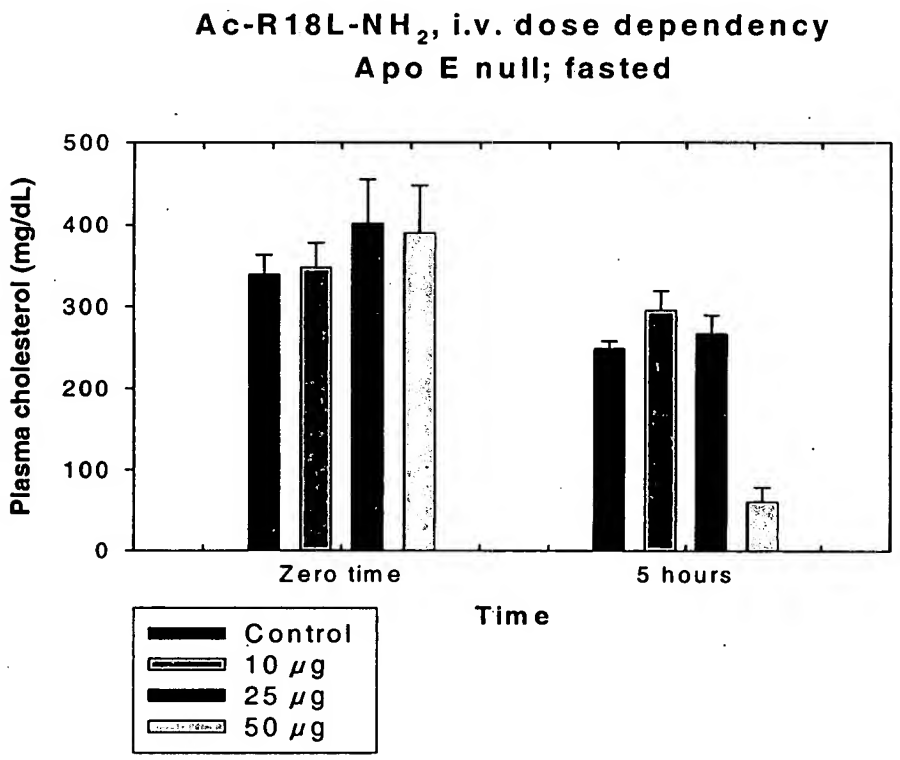

Ac-R18L-NH2, i.v. dose dependency
Apo E null; fasted
Plasma cholesterol (mg/dL)
500
400
300
200
100
0
Zero time
5 hours
Time
Control
10 μg
25 μg
50 μg

Fig. 5

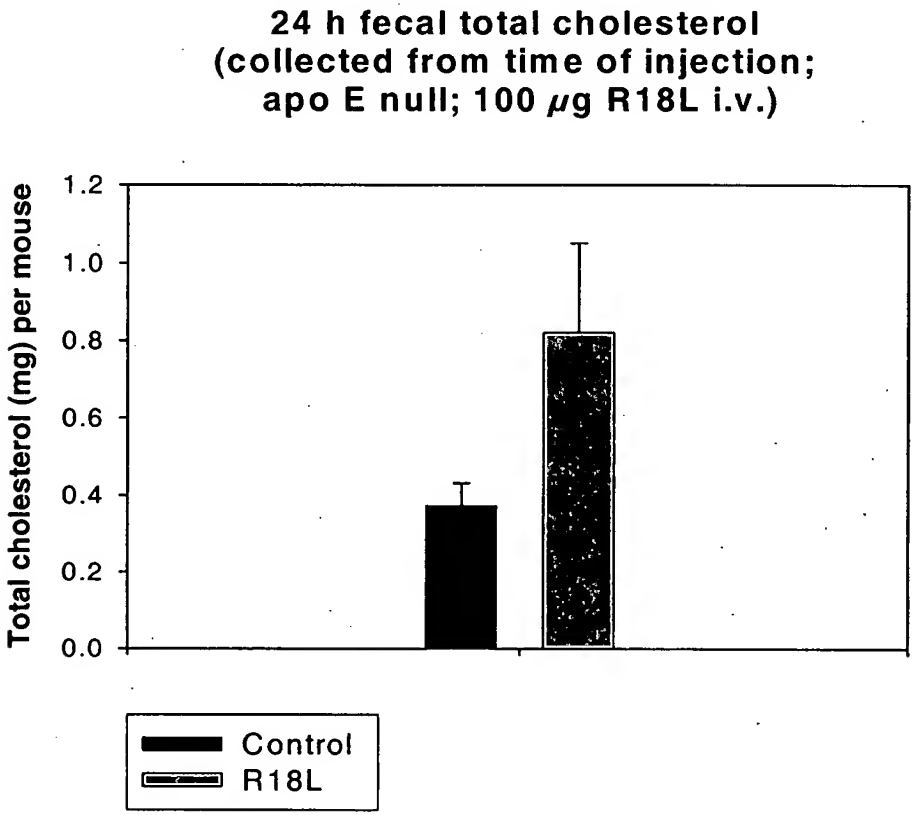

24 h fecal total cholesterol
(collected from time of injection;
apo E null; 100 μg R18L i.v.)
Total cholesterol (mg) per mouse
1.2
1.0
0.8
0.6
0.4
0.2
0.0
Control
R18L

Fig. 6

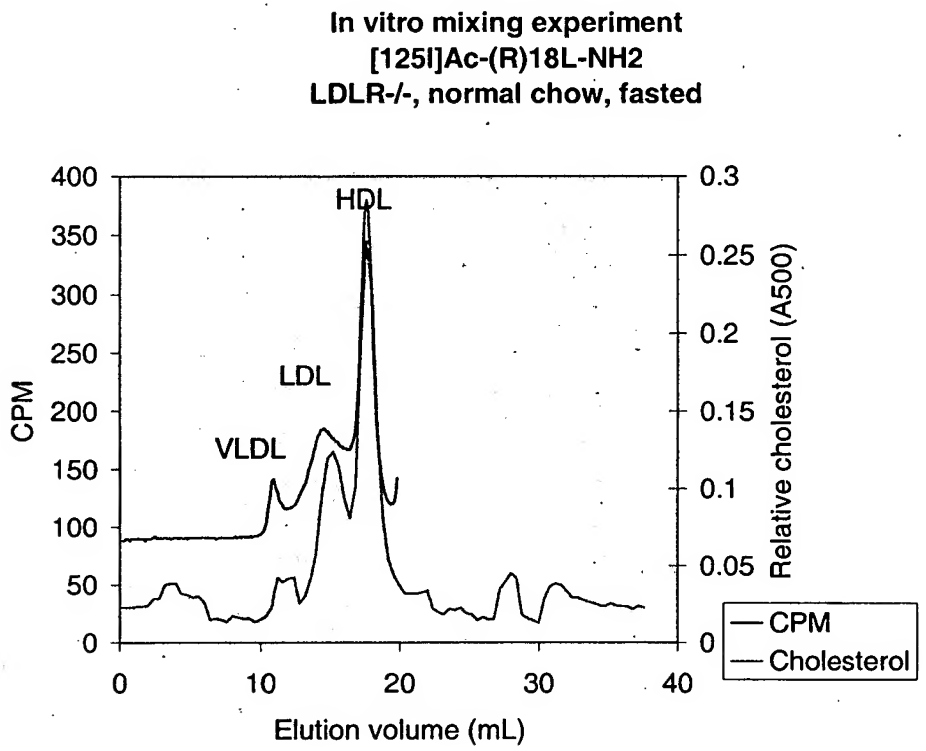
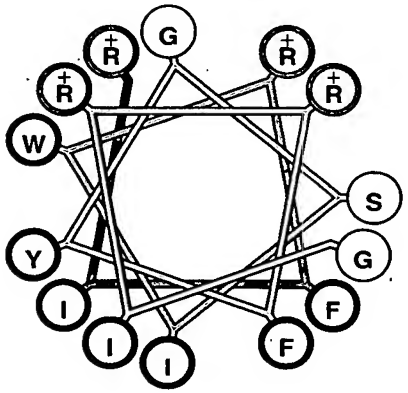
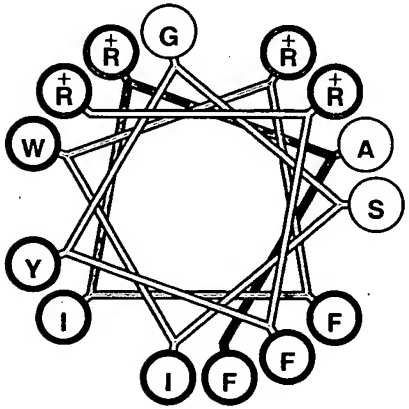

In vitro mixing experiment
[125I]Ac-(R)18L-NH2
LDLR-/-, normal chow, fasted
HDL
LDL
VLDL
CPM
Relative cholesterol (A500)
Elution volume (mL)
CPM
Cholesterol
400
350
300
250
200
150
100
50
0
0.3
0.25
0.2
0.15
0.1
0.05
0
0
10
20
30
40

Fig. 7



R14 L-1
Fig. 8A



R14-L2
Fig. 8B

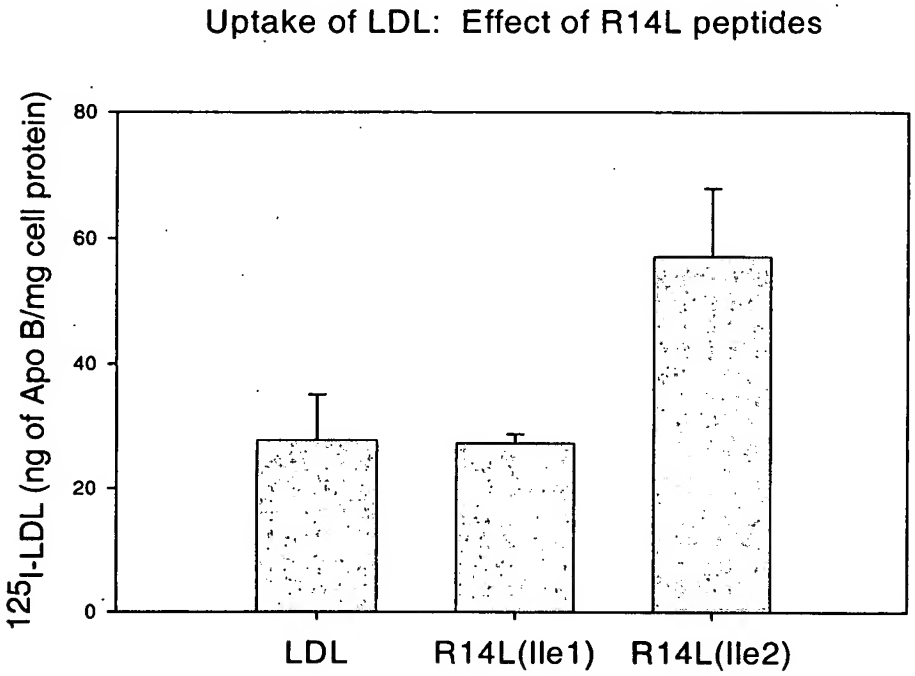

Uptake of LDL: Effect of R14L peptides
125I-LDL (ng of Apo B/mg cell protein)
80
60
40
20
0
LDL
R14L(Ile1)
R14L(Ile2)

Fig. 9

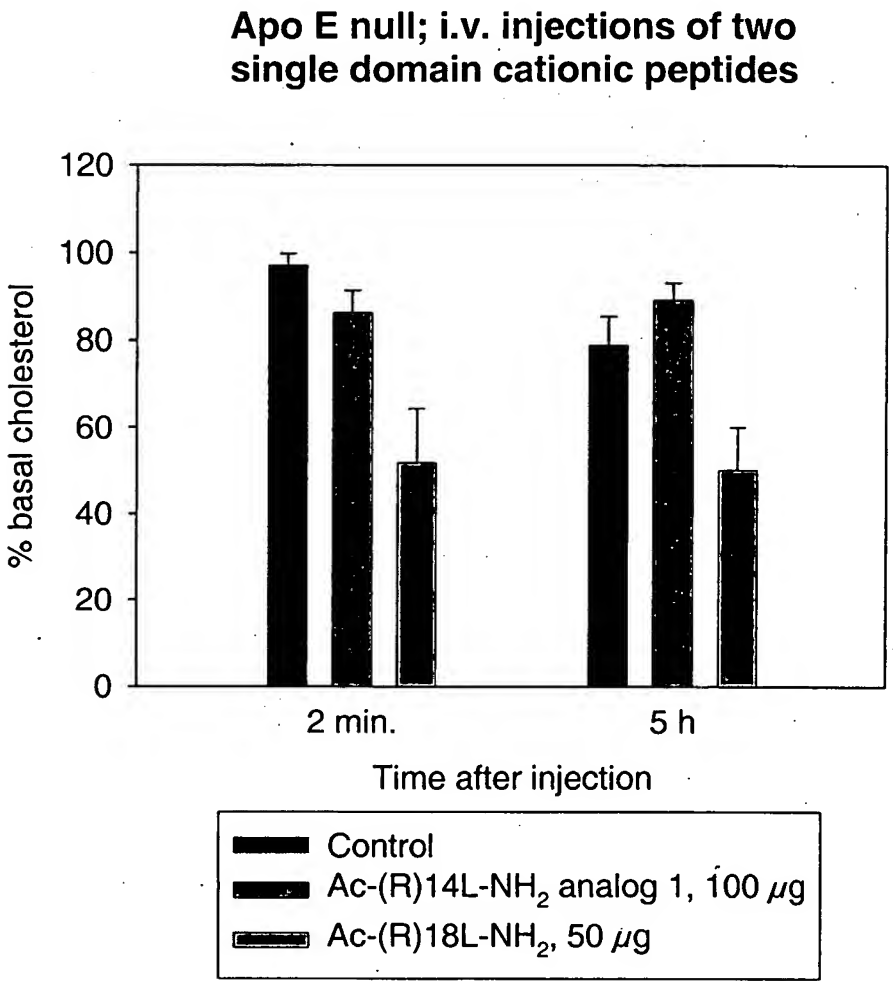

Apo E null; i.v. injections of two single domain cationic peptides
% basal cholesterol
120
100
80
60
40
20
0
2 min.
5 h
Time after injection
Control
Ac-(R)14L-NH2 analog 1, 100 μg
Ac-(R)18L-NH2, 50 μg

Fig. 10

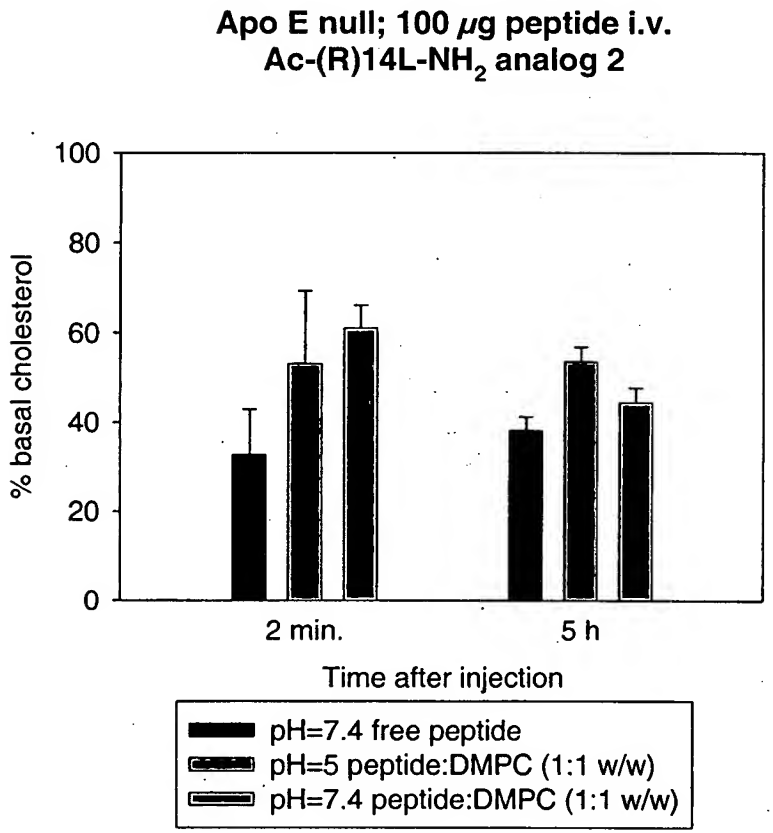
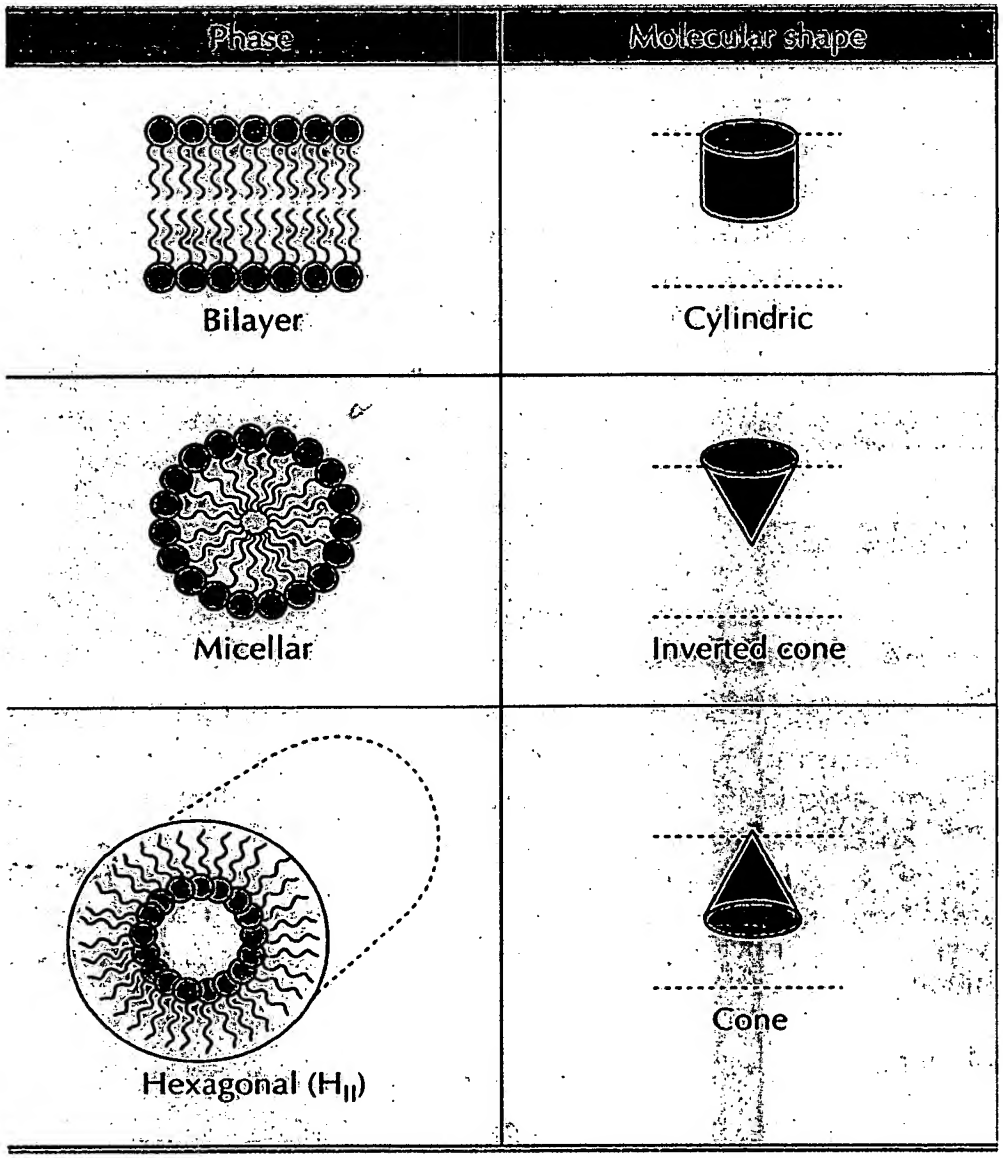

Apo E null; 100 μg peptide i.v.
Ac-(R)14L-NH2 analog 2
% basal cholesterol
100
80
60
40
20
0
2 min.
5 h
Time after injection
pH=7.4 free peptide
pH=5 peptide:DMPC (1:1 w/w)
pH=7.4 peptide:DMPC (1:1 w/w)

Fig. 11

Figs. 12A-12F


Phase
Molecular shape
Bilayer
Cylindric
Micellar
Inverted cone
Hexagonal (H_{II})
Cone